

Material: UNS S40930

Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications

Group: Ferrous Stainless Steel Alloys

Sub Group: UNS Chromium and Chromium-Nickel Stainless Steel for Pressure Vessels and for General Applications

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Steel

Chemical Composition			Heat Treatment															
Carbon	C %	0.030 max.	Annealing or Hardening + Tempering															
Silicon	Si %	1.000 max.																
Manganese	Mn %	1.000 max.																
Phosphorus	P %	0.040 max.																
Sulphur	S %	0.020 max.																
Chromium	Cr %	10.500 - 11.700																
Nickel	Ni %	0.500 max.																
Nitrogen	N %	0.030 max.																
Titanium	Ti %	0.050 min.																
Ti + Cb	Ti % + Cb %	(0.080+8) (C+N) -																
Iron	Fe %	Balance	<table border="1"> <thead> <tr> <th colspan="2">Mechanical Properties</th> </tr> </thead> <tbody> <tr> <td>Tensile Strength in Mpa</td> <td>380 min.</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>170 min.</td> </tr> <tr> <td>Elongation in %</td> <td>20 min.</td> </tr> <tr> <td>Reduction of Area in %</td> <td>-</td> </tr> <tr> <td>Hardness in BHN</td> <td>179 max.</td> </tr> <tr> <td>Impact in Joule</td> <td>-</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	380 min.	Yield Strength in Mpa	170 min.	Elongation in %	20 min.	Reduction of Area in %	-	Hardness in BHN	179 max.	Impact in Joule	-
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S40910	ASTM	USA	Steel, Plate, Sheet and Strip
S40910	UNS	USA	Steel
S40920	UNS	USA	Steel
S40945	UNS	USA	Steel
S40975	UNS	USA	Steel
S40977	UNS	USA	Steel
A959 S40975	UNS	USA	Steel

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